

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042624\
 Data File : VN081897.D
 Acq On : 27 Apr 2024 01:57
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/29/2024
 Supervised By :Semsettin Yesilyurt 05/14/2024

Quant Time: May 14 11:15:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:13:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	43856	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	258781	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	223841	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	108329	32.873	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.567%			
60) 4-Bromofluorobenzene	12.847	95	109381	31.964	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.533%			
63) Toluene-d8	10.571	98	321457	32.001	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 106.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	49246	16.515	ug/l	95
3) Chloromethane	2.360	50	56018	18.693	ug/l	96
4) Vinyl Chloride	2.518	62	52528	14.702	ug/l	94
5) Bromomethane	2.965	94	28454	11.857	ug/l	94
6) Chloroethane	3.124	64	31206	13.399	ug/l	97
7) Trichlorofluoromethane	3.501	101	79891	16.981	ug/l	98
8) Diethyl Ether	3.959	74	38884	23.514	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.383	101	55621m	21.782	ug/l	
10) 1,1-Dichloroethene	4.342	96	52115	20.824	ug/l	90
11) Methyl Iodide	4.595	142	42500m	15.856	ug/l	
12) Methyl Acetate	5.030	43	65267	28.779	ug/l #	76
13) Acrolein	4.177	56	67636	136.756	ug/l	94
14) Acrylonitrile	5.718	53	152171	135.123	ug/l	99
15) Acetone	4.424	58	35097	135.473	ug/l	91
16) Carbon Disulfide	4.718	76	142124	20.692	ug/l	99
17) Allyl chloride	5.018	41	99043m	31.511	ug/l	
18) Methylene Chloride	5.289	84	58460	20.440	ug/l	89
19) trans-1,2-Dichloroethene	5.795	96	52442	18.458	ug/l #	94
20) Diisopropyl ether	6.671	45	205004	27.137	ug/l	94
21) 1,1-Dichloroethane	6.571	63	111060	22.940	ug/l	93
22) cis-1,2-Dichloroethene	7.483	96	65668	19.892	ug/l	94
23) tert-Butyl Alcohol	5.506	59	65746m	160.257	ug/l	
24) Methyl tert-Butyl Ether	5.795	73	195913	23.613	ug/l	93
25) Chloroform	7.965	83	105824	19.702	ug/l	100
26) Cyclohexane	8.265	56	92226	25.298	ug/l #	89
29) 1,1-Dichloropropene	8.377	75	75895	19.689	ug/l	96
30) 2-Butanone	7.483	43	201137	142.219	ug/l	95
31) 2,2-Dichloropropane	7.494	77	76375	17.402	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	88373	18.225	ug/l	95
33) Carbon Tetrachloride	8.365	117	72081	17.643	ug/l	96
34) Benzene	8.606	78	247236	20.989	ug/l	95
35) Methacrylonitrile	7.777	41	49221	29.610	ug/l	93
36) 1,2-Dichloroethane	8.671	62	80804	20.440	ug/l	98
37) Trichloroethene	9.353	130	59214	18.907	ug/l	87
38) Methylcyclohexane	9.606	83	92330	24.001	ug/l	95
39) 1,2-Dichloropropane	9.624	63	60579	21.681	ug/l	93
40) Dibromomethane	9.712	93	39283	18.480	ug/l	93
41) Bromodichloromethane	9.888	83	83736	20.127	ug/l	99
42) Vinyl Acetate	6.600	43	827510	136.790	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	83924	28.490	ug/l	97
44) Isopropyl Acetate	8.688	43	152484	28.809	ug/l	90
45) 1,4-Dioxane	9.700	88	24634	490.739	ug/l	99
46) Methyl methacrylate	9.683	41	69119	28.540	ug/l	83
47) n-amyl Acetate	12.494	43	134363	29.108	ug/l	89
48) t-1,3-Dichloropropene	10.835	75	90209	20.689	ug/l	93
49) cis-1,3-Dichloropropene	10.312	75	97603	20.658	ug/l #	84
50) 1,1,2-Trichloroethane	11.018	97	54761	18.618	ug/l	93
51) Ethyl methacrylate	10.877	69	101566	24.707	ug/l	78
52) 1,3-Dichloropropane	11.165	76	98925	20.367	ug/l	100
53) Dibromochloromethane	11.359	129	56760	17.705	ug/l	98
54) 1,2-Dibromoethane	11.471	107	54313	17.849	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	258760	122.830	ug/l	96
56) Bromoform	12.582	173	35726	17.498	ug/l	94
58) 4-Methyl-2-Pentanone	10.447	43	443264	152.530	ug/l #	88
59) 2-Hexanone	11.194	43	328414	153.650	ug/l	89
61) Tetrachloroethene	11.106	164	51577	20.172	ug/l	92
62) Toluene	10.630	91	253739	20.694	ug/l	99
64) Chlorobenzene	11.894	112	156645	20.859	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	51335	18.428	ug/l	95
66) Ethyl Benzene	11.965	91	285566	22.150	ug/l	100
67) m/p-Xylenes	12.071	106	208661	41.213	ug/l	100
68) o-Xylene	12.400	106	104813	21.124	ug/l	99
69) Styrene	12.412	104	170161	20.831	ug/l	100
70) Isopropylbenzene	12.694	105	264686	21.889	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	77124	20.684	ug/l	94
72) 1,2,3-Trichloropropane	12.994	75	58899m	20.179	ug/l	
73) Bromobenzene	12.982	156	54161	18.012	ug/l	85
74) n-propylbenzene	13.035	91	309908	22.551	ug/l	100
75) 2-Chlorotoluene	13.124	91	190026	22.275	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	214143	21.644	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	30444	27.562	ug/l	91
78) 4-Chlorotoluene	13.224	91	182795	21.393	ug/l	100
79) tert-butylbenzene	13.441	119	184829	22.504	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	210234	21.327	ug/l	97
81) sec-Butylbenzene	13.618	105	253080	22.005	ug/l	98
82) p-Isopropyltoluene	13.729	119	204610	21.191	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	101911	18.843	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	100701	18.550	ug/l	98
85) n-Butylbenzene	14.059	91	179223	22.496	ug/l	96
86) Hexachloroethane	14.335	117	40429	26.545	ug/l	80
87) 1,2-Dichlorobenzene	14.106	146	99721	18.938	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	17563	26.097	ug/l	84
89) 1,2,4-Trichlorobenzene	15.841	180	53817	20.892	ug/l	99
90) Hexachlorobutadiene	15.506	225	19214	17.001	ug/l	97
91) Naphthalene	15.641	128	209598	22.916	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	53817	20.892	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

